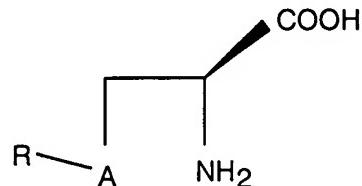


IN THE CLAIMS

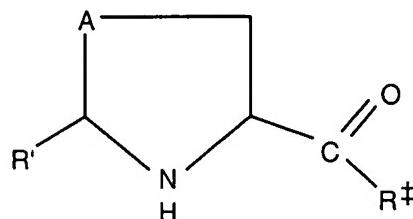
1. (currently amended) A prodrug of the formula:



where A is ~~a sulfur or a selenium~~, and R is ~~derived from~~ a mono- di- or oligo-saccharide.

Claims 3-8 (cancelled)

9. (currently amended) A prodrug of the formula:



where A is ~~sulfur or selenium~~, and

R' is ~~derived from~~ a sugar and R' has having the formula (CHOH)_nCH₂OH, where n is 1 to 5, or

R' is also be an alkyl or aryl group, or

R' is =O, and

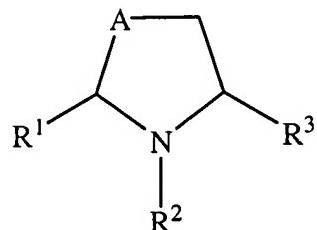
R[‡] is an alkoxy, or an amine group.

10. (original) A prodrug as in Claim 9 wherein R[‡] is -OR¹ where R¹ is ethyl, or methyl.
11. (original) A prodrug as in Claim 9 wherein R' is methyl, ethyl, benzyl, carboxyl, or phenyl.
12. (original) A prodrug as in Claim 9 wherein R[‡] is -NR[†]₂, wherein the R[†] groups are the same or different and are hydrogen or alkyl.

13. (original) A prodrug as in Claim 11 wherein at least one R[†] is methyl.

Claims 14 and 15 (cancelled)

16. (new) A method for reducing the toxic insult in a mammal, comprising administering the prodrug of claim 1.
17. (new) A method for (1) reducing unwanted side effects of chemo- or radiotherapy of cancer, (2) improving cardiovascular function, (3) preventing mutagenesis, (4) preventing the initiation and/or progression of cancer, (5) reducing toxic consequences of planned or unplanned radiation or chemical exposures, (6) slowing the aging process, or (7) preventing cataract formation in a mammal comprising administering to the mammal the prodrug of claim 1.
18. (new) A method for reducing the toxic insult in a mammal, comprising administering to the mammal a prodrug having the formula



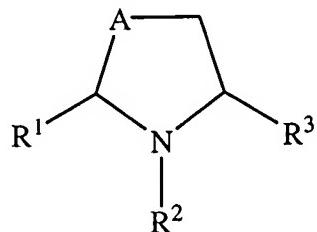
wherein

- (1) A is selenium,
R¹ is a sugar having the formula (CHOH)_nCH₂OH, where n is 1 to 5, or R¹ is an alkyl or aryl group, or R¹ is =O,
R² is CH₂CH₂CH₂N(R⁴)₂, wherein R⁴ may be the same or different and may be hydrogen, alkyl, alkoxy, or carboxy; and
R³ is hydrogen;
- (2) A is selenium,
R¹ is a sugar having the formula (CHOH)_nCH₂OH, where n is 1 to 5, or R¹ is an alkyl or aryl group, or R¹ is =O,

R² is hydrogen, R³ is COR⁵, wherein R⁵ is an alkoxy, or an amine group;
or

- (3) A is selenium,
R¹ is a sugar having the formula (CHOH)_nCH₂OH, where n is 1 to 5, or R¹ is an alkyl or aryl group, or R¹ is =O,
R² is hydrogen, and R³ is hydrogen or COOH.

19. (new) A method for (1) reducing unwanted side effects of chemo- or radiotherapy of cancer, (2) improving cardiovascular function, (3) preventing mutagenesis, (4) preventing the initiation and/or progression of cancer, (5) reducing toxic consequences of planned or unplanned radiation or chemical exposures, (6) slowing the aging process, or (7) preventing cataract formation in a mammal comprising administering the mammal a prodrug having the formula



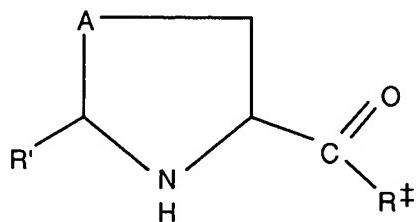
wherein

- (1) A is selenium,
R¹ is a sugar having the formula (CHOH)_nCH₂OH, where n is 1 to 5, or R¹ is an alkyl or aryl group, or R¹ is =O,
R² is CH₂CH₂CH₂N(R⁴)₂, wherein R⁴ may be the same or different and may be hydrogen, alkyl, alkoxy, or carboxy; and
R³ is hydrogen;
- (2) A is selenium,
R¹ is a sugar having the formula (CHOH)_nCH₂OH, where n is 1 to 5, or R¹ is an alkyl or aryl group, or R¹ is =O,

R² is hydrogen, R³ is COR⁵, wherein R⁵ is an alkoxy, or an amine group;
or

- (3) A is selenium,
R¹ is a sugar having the formula (CHOH)_nCH₂OH, where n is 1 to 5, or R¹ is an alkyl or aryl group, or R¹ is =O,
R² is hydrogen, and R³ is hydrogen or COOH.

20. (new) A prodrug of the formula



where A is sulfur or selenium, and

R' is an alkyl or aryl group, or

R' is =O, and

R‡ is an alkoxy, or an amine group.

A
Concl'd